MASA TM X- 65930

PROVISIONAL HOURLY VALUES OF EQUATORIAL Dst FOR 1971

M. SUGIURA D. J. POROS

N72-28806

(NASA-TM-X-65930) PROVISIONAL HOURLY
(NASA-TM-X-65930) PROVISIONAL HOURLY
VALUES OF EQUATORIAL DSt FOR 1971 17 P CSCL
VALUES OF EQUATORIAL Jun. 1972 17 P 03B
Sugiura, et al (NASA)

unclas 35532

JUNE 1972





GODDARD SPACE FLIGHT CENTER
GREENBELT, MARYLAND

PROVISIONAL HOURLY VALUES OF EQUATORIAL Dst for 1971

M. Sugiura
Laboratory for Space Physics
Goddard Space Flight Center, Greenbelt, Maryland 20771

and

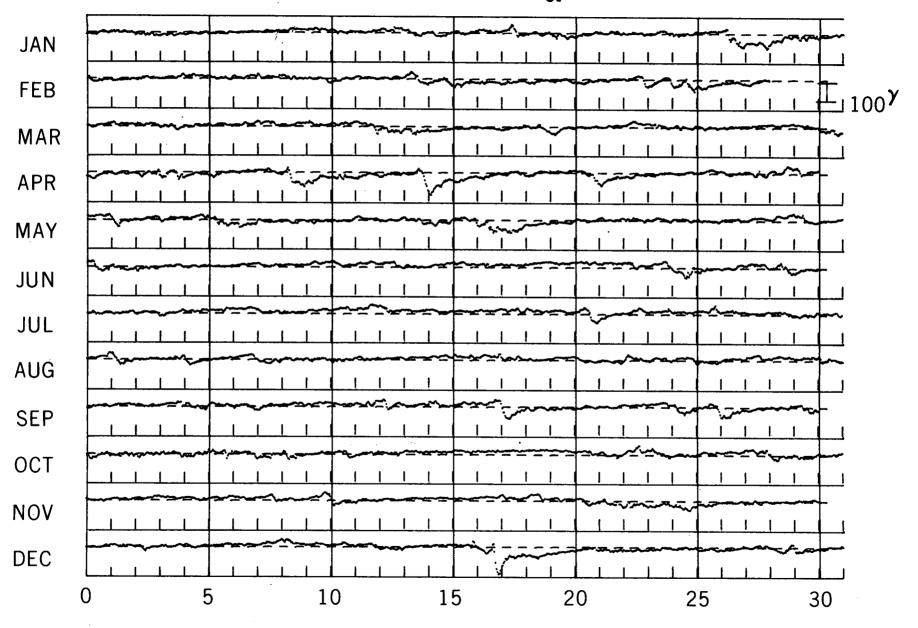
D. J. Poros Computer Science Corporation Silver Spring, Maryland 20910 Tables and plots of provisional hourly values of the equatorial Dst index for 1971 are given in this report. A table of daily mean Dst values for 1971 is also provided. For the derivation of the Dst index, see Sugiura and Poros (1971) and the earlier reports referred to therein.

The base line values for the four observatories, Hermanus, Kakioka, Honolulu, and San Juan, were obtained from extrapolations using the coefficients for the secular variations determined for the previous years (Sugiura and Poros, 1971). Examining the Dst values for quiet days, the base lines so determined appear to be slightly low, so that the Dst index for quiet periods tends to be high. When the final Dst values for 1971 are determined later, a new set of coefficients will be obtained for the secular variations for each observatory and the Dst index will be recalculated using the new base lines.

REFERENCE

Sugiura, M., and D. J. Poros, Hourly values of equatorial Dst for the years 1957 to 1970, Goddard Space Flight Center, Report X-645-71-278, July, 1971.

PROVISIONAL EQUATORIAL D_{st} FOR 1971



JANUARY 1971 (PROVISIONAL)

	•																									
		UN IT	= GA MM	AS																				G.	M. T.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	DAY .																									
	1	3	1	1	5	2	-0	-1	1	1	-0	-4	1	5	10	10	11	14	14	11	8	8	3	1	5	
	2	13	7	11	14	6	9	12	15	8	4	3	5	10	11	10	7	4	4	4	5	6	4	i	-1	
	3	-8	- 5	- 3	- 3	-6	-9	-5	-2	1	-6	-13	-8	-6	-13	-9	- 4	0 -	-6	-17	-11	-12	-10	-16	-16	
	4	-14	-12	-10	- 8	-6	-7	-11	-13	-7	-7	-5	~3	-6	-13	-15	-14	-10	-8	- 7	-5	-3	-5	~5	-7	
	5	- 9	- 9	-8	- 8	- 4	- 2	, -2	-1	-1	1	-2	1	-1	-7	-6	- 5	- 6	- 3	- 2	2	4	6	2	-5	
	6	-6	- 5	- 3	- 4	-3	-4	-5	-4	0	1	-3	-3	-3	- 5	- 5	-4	- 6	-6	- 4	-0	4	4	3	2	
	7	0	-0	0	- 1	- 2	-2	-1	2	4	1	2	4	2	3	5	6.	5	5	8	8	6	3	4	4	
	8	4	6	5	4	3	5	8	10	13	14	12	10	10	9	11	9	9	9	12	13	13	12	9	10	
	9	10	12	13	11	9	10	13	18	22	24	23	21	18	19	20	20	18	18	19	19	18	19	19	17	
	10	16	17	19	20	20	18	18	21	27	28	25	18	16	18	22	23	20	20	20	14	16	12	12	17	
	11	16	17	17		11	6	-2	4	8	9	8	5	4	3	-0	-2	2	5	9	11	9	10	9	6	
	12	7	8	8	7	8	8	6	4	3	` 2	2	6	8	7	6	6	10	14	15	13	11	14	16	17	
	13	18	23	25	24	24	21	13	11	11	13	16	19	17	13	33	25	26	27	25	25	28	28	19	18	
	14	14	14	19	18	12	8	3	2	4	-3	-10	-9	-5	-9	-13	- 15	- 12	- 3	C	-3	-0	3	5	8	
	15	4	5	7	7	4	-6	-13	-15	-1 5	-16	-17	-18	-14	-13	-13	-13	- 1 1	- 5	1	-1	1	1	6	6	
	16	6	8	9	11	12	9	3	-3	-1	-0	-7	-5	-2	-2	- 1	-2	4	8	9	8	6	6	12	14	
	17	13	23	18	18	17	18	17	13	16	16	10	12	16	7	3	3	6	11	12	9	5	7	10	10	
	18	14	_	16	16	19	19	21	29	38	49	44	29	22	11	-10	- 17	- 1 1	-6	-6	-9	-11	-9	6	-4	
	19	-5	- 5	- 1	1	1	2	4	9	9	6	2	9	-3	-8	-10	-10	- 8	- 4	1	2	2	6	7	-2	
	20	- 1	-12	-8	- 15	- 15	-27	-13	-3	2	-3	-10	- 12	-11	-13	-20	-26	- 27	-23	-16	-14	-14	-15	-19	-20	
	21	-20	-18	-13	-10	-7	-9	-11	-1	0	-5	-4	-7	-7	-8	-5	-2	- 0	3	4	6	11	9	7	7	
	22	10	6	5	1	- 1	- 1	-2	1	2	3	9	11	11	10	9	9	12	13	9	1	-3	-3	2	3	
	23	0	- 3	-2	- 1	2	-0	1	4	8	7	4	3	3	2	2	4	5	3	-2	-6	-4	-4	-3	-2	
	24	- 2	- 3	- 3	- 2	-0	-3	- 1	6	9	9	10	14	17	15	16	15	13	10	3	. 0	- 5	6	4	3	
	25	-9	- 4	-0	0	- 5	-12	-8	- 5	-3 .	-3	-8	-7	-2	3	2	- 1	- 3	- 3	- 2	-2	3	9	10	12	
	26	10	6	6	9	9	9	9		13	10	9	13	15	16	15	16	16	15	13	11	13	15	15	17	
	27	19	50	20	20	29	27	0	-24	-36	-28	-25	-19	-20	-28	-45	- 49	-58	-40	-63	-68	-72	-70	-64	-54	
	28	-48	-49	-51	-52	- 45	-47	-48	-50	- 52	-57	-56	-52	-45	-41	-47	-49	-48	- 57		- 69	-77	-75	-59	-58	
	29 30	-49 -9	-39	-31 -17	- 40	- 40 - 27	-35 -30	-31 -15	-33 -8	-33 -7	-35 -16	-39 -25	-30 -31	-22	-11 -11	-10 -10	-12 -13	-15 -14	-11 -13	-16 -12	-20 -14	-20 -14	-17 -4	-13 -18	-9 -23	
١.	30	-9							_	-7	-10	-25	-31	-20	-11	-10	- 13	- 14	-13	-12	-14	-14	-4	-18	-23	
	31	-18	-10	-11	-11	-13	-15	-15	-14	-11	-10	-7	-10	-8	-4	- 4	- 1	2	1	- 5	-9	-4	2	2	4	

FEBRUARY 1971 (PROVISIONAL)

	UN IT	= GA M M	AS																				G.	M. T.
	1		3	4	5	6	7	8	9	1 0	1 1	12	13	14	15	16	1.7	18	19	20	21	22	23	24
DAY																								
1	- 0	1	8	- 4	- 9	-1 i	-18	-16	-1 4	-17	-18	-13	-10	-11	-14	- 11	- 6	- 5	- 5	-6	- 5	-3	-4	-6
2	-9	-13	-13	-13	- 12	-12	-10	-8	-8	-6	-8	-8	-7	-6	-6	- 5	- 4	-6	- 8	-3	-2	О	0	-2
3	-6	- 8	- 6	1	- 1	-1	2	6	5	7	9	10	5	3	2	4	7	7	3	3	3	.3	0	-1
4	1	1	1	1	1	3	5	8	9	10	9	10	9	7	3	1	3	8	1 C	12	14	5.0	25	18
5	1 1	11	1 1	12	13	13	14	18	22	21	14	12	15	15	1 4	14	14	13	10	9	9	10	12	13
6	14	10	8	6	7	7	2	- 1	-1	-0	4	7	7	5	5	5	10	3	-0	-1	-4	-2	3	14
7	16	18	12	9	8	8	9	7	4	3	4	9	12	15	16	16	20	21	21	21	20	17	14	18
8	29	24	13	5	5	7	8	11	13	13	16	15	14	15	15	13	12	11	10	9	1.3	21	19	17
9	22	22	18	16	9	13	12	4	-2	3	9	14	12	4	0	3	7	8	6	6	5	5	8	5
10	2	6	9	9	7	5	2	3	3	1	5	9	8	9	10	4	6	6	4	2	9	-16	-18	-16
11	-14	-12	- 10	- 7	- 6	-6	-7	-7	-6	-7	1	4	5	5	8	10	8	4	3-	1	3	6	5	10
12	14	16	17	18	15	12	7	6	1 1	14	13	12	13	13	10	7	9	9	8	6	4	4	2	5
13	8	9	9	10	11	9	8	9	7	3	2	3	6	9	12	15	14	13	11	9	8	6	6	10
14	13	20	22	25	28	33	40	35	35	25	12	17	17	-4	-13	- 18	-21	-19	-23	_	-21		-30	-24
15	-22	-18	- 20	-19	- 13	-9	-10	-9	-10	-6	-8	-2	-2	-2	6	3	- 5	-13	-18	-50	-28	-27	-37	-32
16	-42	-45	-33	-26	- 25	-27	-30	-41	-33	- 28	-23	-19	-16		-17		-14	-13	-16	-	-17	-18	-19	-17
17	-18	-23	-20	-15	-13	-19	-22	-18	-1 5	-12	-13	-11	-14		-13	-13	-13	- 14	-16	-16	-17	-18	-22	-25
18	-21	-20	-22	-21	-17	-11	-12	-16	-18	-18	-13	-12	-14	-14	-13	- 1 1	- 9	- 6	-6	-9	-7	-8	-8	-14
19	-16	-17	-20	-20	-17	-15	-16	-20	-17	-1 1	-7	9	-8	-5	- 4	- 4	- 5	- 4	- 3	-2	-2	-4	-7	-8
20	-7	- 7	-12	-13	-9	-5	-4	-3	~5	- 5	-1	` 2	ı	1	3	5	0	- 2	- 4	-8	-10	-16	-16	-12
21	-10	-14	- 14	-13	- 13	-16	-17	-19	-20	-18	-16	-11	-11	-9	-5		- 6	- 7	- 8	-4	-3	- 5	-3	- <u>1</u>
22	2	3	0	- 1	- 4	-4	-3	- 5	- 7	-4	-0	3	5	5	6	5	4	4	6	7	6	4	5	7
23	7	5	1	1	1	7	8	5	7	11	13	13	18	23	23	50	16	19	12	-1	-17			-40
24	-34	-31	- 31	-29	- 25	-20	-16	-14	-1 1	-7	-3	-5	-3	3	7	8	10	12	1 1	1 1	7	0	-16	-27
25	-35	-40	-36	- 32	 33	-30	-26	-28	-22	-13	~7	-7	- 6	7	-16	- 33	-22	-34	-43	-49	- 53	-64	-44	-38
26	-34	-33	-40	-39	- 49	-46	-40	-44	-43	-4 1	-32	-30	-29		-28	-30	-26	-23		-21				-20
27	-14	-13	- 14	-16	-15	-16	-14	-14	-12	-10	-9	-11	-11	-10	- 7		- 9		-11		-21		-17	-21
28	-22	-24	-26	-25	- 25	-20	-15	-13	-12	- 1 0	-8	-8	-в	-6	- 5	- 2	0	2	3	4	2	2	1	0

MARCH 1971 (PROVISIONAL)

	UNIT.	= GAM Y	ic																				G.	M.T.	
	1	– GAMM 2		4	5	. 6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
														•											
DAY								_	_	_	_	•	•		-	5	3	5	6	. 9	9	10	10	13	
1 .	- 2	- 2	- 2	- 4	- 8	-9	-6	-5	-6	-2	· 10	9	2 8	6 6	5 7	10	7	7	7	8	7	5	3	6	
2	14	16	18	16	5	4	3	1	3	8 6	7	9 5	6	8	10	8	8	10	10	3	i	2	-1	-11	
3	7	10	9	6	4	1	-4	-1	-		3	2	- 5	-11	-17	-21	-24	-24	-20	-14	-12	-11	-9	-5	
4	-13	-6	- 8	- 8	-2	-2	-4 -7	-1 1 -9	- 7 -6	-1 1	4	3	-3	-11	3	- 2.	- 2	1	4	5	3	3	6	8	
5	- 3	- 1	- 3	-10	-9	- 6	-,	-9	-0		4	3	·	•	•	·		•	•	•	•	•	•	_	
6	6	3	- 0	- 4	-3	0	2	3	6	7	10	10	9	9	10	7	5	2	1	2	2	0	0	1	
7	3	6	6	6	4	4	1	1	5	8	13	16	13	8	. 7	7	4	3	6	8	13	19	21	25	
8	25	20	10	9	14	18	20	20	18	21	22	16	11	17	19	17	10	-0	- 0	3	2	1	4	5	
9	4	6	7	6	1	- 1	1	-1	3	2	4	4	7	12	15	15	14	13	12	15	14	15	15 7	16	•
10	17	14	24	17	14	12	6	2	4	5	2	-3	0	6	2	1	1	2	4	2	6	7	,	10	
												_				• • •	•	8	10	11	13	-19	20	19	
11	13	13	13	10	4	2	3	2	7	11	15	9	10	17		14	9	-2	-11	-23	-40	• •	-24	-18	
12	21	23	21	16	1.3	13	12	13	15	15	9	-0	0	2.	6	6	=	-28	-26	-37		-28	-26	-20	
13	-21	- 1 1	- 8	- 15	- 12	-12	-12	-26	-34	-30	-29	-23	-26	-33	-30	- 22	- 30	-25	-25	-25		22	-17	-21	
14	-15	-16	-19	-19	-18	-19	-28	-42	-39	-36	-46	-34	-28	-33	-34	-29	- 25 - 20	-17	-16	-14		-17	-14	-13	
15	-30	-29	- 25	-27	- 30	-26	-27	-25	- 26	-25	-26	-24	-22	-18	-17	- 17	- 20	-17	-10	-14	-19	,	-1-		
		_						4.0	-1 1	-12	-12	-14	-11	_11	-12	-13	- 9	- 6	÷ 4	-7	-11	-1 1	-9.	-7	
16	-10	-8	-13	-14	-16	-12	-12	-1.2		-10	-12	-14	-10	-8	-7	-0	-11	-13	-13	-15	-16	-12	-15	-18	
17	- 5	-6	- 8	-9	-10	-9	-7	-8	-8	-10	-6	-4	-4	-2	-3	- 4	-7	-6	-6	-4	-1	3	7	6	
18	-18	-17	-16	-14	-13	-14	-12	-9	-4 -4	-4	-1	3	12	10	-1	-7	- 5	-9	-13	-17		-23	-23	-31	
19	3	2	2	- 2	-6	-7	-3	-2 -28	-23	-4 -16	-12	-11	-7	-5	-6	-4	-2	ó	ò	-4	4	-6	-9	-8	
20	-36	-38	-38	-39	-42	-37	-31	-28	-23	-10	-12	-11	-,	3	Ū		_	•	•						
21	- 5	- 2	-0	1	1	2	2	2	-1	-4	-4	-3	-3	-4	-4	-3	- 0	1	2	1	4	4	2	0	
22	- 2	- 1	- 2	- 3	- 3	- 1	1	3	7	10	9	7	6	8	7	8	10	11	10	8	9	9	9	11	•
23	11	11	12	16	18	5.0	23	26	30	33	31	31	26	23	20	22	23	20	17	16	20	18	21	21	
24	20	21	15	17	14	14	20	17	1	4	15	13	12	12	10	7	9	4	-3	-4	-5	-1	1 8	2	
25	1	2	7	1 1	11	9	3	-9	-10	1	9	5	3	3	- 2	- 2	- 3	- 3	- 5	-6	-4	2	8	9	
					_	_	_		_	_			_	_	2	-0	2	1	- 0	-5	-7	-3	0	1	
26	5	6	8	4	3	2	-2	-10	-9	5	-1.		5 2	6 5	2 8	- 0	4	7	- 0	- 5 5	7	7	6	5	
27	- 1	1	3	5	-0	-2	-3	2	7	9	6	5 9	12	14	13	12	13	16	16	15	13	12	16	17	
28	7	3	8	7	4	5	6	10	11	11	9	-	20	20	18	17	17	16	17	18	20	22	23	22	
29	17	18	17	16	14	11	10	13	13	11	11	15 8	14	16	11	9	8	10	3	3	5	2	- 6	6	
30	19	16	17	20	18	15	14	16	16	11	8		14	. 10	• • •	,	·			•	J	_	•	•	
31	-2	- 4	-13	-16	- 1 i	-14	-17	-23	-16	-14	-18	-16	-7	-4	-6	-9	-24	-28	-30	-34	-30	-24	-23	-20	

APRIL 1971 (PROVISIONAL)

		= GA W																					G.	M. T.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
DAY																								
1	-19	-19	-20	- 21	- 24	-27	-33	-33	-27	-22	-18	-14	-11	-9	-6	-6	- 3		- 4	-5		_	_	_
2	- 2			- 8	- 8	- z. 7 - 7	-6	-33	-2 / -2	-1	-10	-14	-11	-3	-8	-8	- 3 - 6	-4 -2	-4 -1	-5 -1	-4 -2	-0 2	2 2	_
3	- 3	-	- 4		-11	-	-22	-16	-9	-8	-4	0	5	7	- 3	-3	-6	-6	-5	-1 -3	-6	4	_	0 -11
4	-15	-23	-26				-3	-7	í	3	10	ä	9	11	3	0	-0	-18	_	-25	-16	-9	-22	-27
5	-23	-13	-14	-14	-12	-12	-1 C	-8	-8	-3	-1	٥	i	-0	- 3	-	- q	-5	-5	-8	-4	-5	-7	-11
													-	•		•	•	•		٠	•	,	_,	
6	-16		~ 13			-2C	-16	-9	· - 5	-12	-9	- 3	3	3	-0	0	-0	- 0	0	0	4	2	3	4
7	2		0	1		-6	- 1	1	3	5	3	3	7	10	9	6	5	6	5	4	8	10	7	11
8	14	14	12	1 1	12	1.0	10	12	14	18	13	. 13	7	4	3	2	1	-2	- 7	-8	-8	-9	-12	-11
9	-6	Ü	4	6	15	26	10	-11	-30	-52	-54	-55	-54	-51	-55	-51	-53	- 66	-68	- 64	-69	-76	-64	-58
10	-52	-45	- 51	- 56	- 58	-57	-45	-41	-4 1	-4 3	-34	-31	-22	-20	-22	-17	-21	-23	-26	-27	-28	-30	-29	-28
										-														
11			- 29					-15	-14	-27		-35	-20	-16		- 26			-25			-30	-31	-31
12			- 30					-15	-14	-17	-12	-9	-6	-4	-7	-9	-9	-9	-13	-11	-13	-15	-23	-25
13			- 20				-8	-6	-	-8	-11	-8	-5	-9	-10	- 10	-10	- 9		-11	-7	-4	-3	-1
14			-9		-8	-7		-8	_	-4	-0	4	12	22	8	11	4		-17		-60			-97
15	-113	-119	-106	-99	- 87	-80	- 7 2	-70	- 67	- 57	- 73	- 76	-66	-51	-47	- 45	-42	- 44	-38	-36	-37	-39	-40	-40
16	-44	-48	-48	- 50	-50	-48	-45	-39	-37	-4 1	-41	-34	-33	-30	-26	- 24	-23	- 23	-22	-22	-19	-20	-19	-24
17	-24	-27	- 25	-28	- 29	-32	-28	-20	-20	-22	-23	-17	-13	-12	-12	- 1 i	- 8	-7	-6	-3	-2	-2	-5	-7
18	-10	-9	- a	- 9	- 11	-10	-3	5	7	4	6	4	8	7	5	8	3	- 3	- 7	-1	2	-5	-14	-14
19	-15	-17	-18	-14	- 12	-13	-12	-7	-3	2	1	4	7	9	1 1	10	10	8	5	6	6	2	4	a
20	7	6	7	6	6	9	11	1.0	7	ક	7	5	3	2	3	4	4	9	13	13	13	14	14	13
21	12	10	•	10	9	11	12	9			•	•			_	_	_	_						
22	-61		-64		- 48	-46	-41	-35	10 -29	6 -33	-2 -34	-32	-13 -29	-11 -25	_	-5	- 5		-22 -15				-54	-54
23	-19	-13	-15		-18	-22	-22	-22	-19	-18	-14	-32 -7	-29	-6	-27	- 25	- 20			-22			-21	-19
24	-19 -5	-13		-11		-12	-10	-2 <i>c</i>	-19	-18	-14	-7 -3	_	-	-7	-7	- 9	-6	-6	-8	-11	-9	-8	-4
25	- 0	-0	- 1			-12 -5	-4	-3		-1	-1	-0	2	2 6	0 8	0 8	2 8	3 7	2	4 9	6 6	5 5	2	1
23	J	5	- •	- 4	- 4	-5	-4	-3	-2	-1	-1	9	4	0	8	8	-	,	9	9	6	5	4	5
26	3	2	4	7	7	6	7	9	11	15	16	17	19	21	23	18	17	14	12	13	12	11	11	13
27	14	10	8	7	2	-5	-5	- a	-10	-9	-6	0	2	1	- 1	1	2	4	5	4	1	6	8	10
28	9	5	10	10	5	3	2	-4	-12	-14	-12	-4	3	19	2	0	-10	- 8	-14	-15	-11	-5	5	10
29	14	15	17	16	17	12	4	2	5	4	3	6	9	15	23	29	3'5	43	36	30	33	29	25	30
30	27	31	32	24	19	6	-6	-3	-1	-1	-2	1	8	11	12	15	13	14	12	13	13	14	17	18

MAY 1971 (PROVISIONAL)

									•															
	UN IT	= GAMM	AS																				G.	M.T.
	1	2	3	4	5	6	7	8	9	10	1 1	12	13	14	15	16	17	18	. 19	20	21	2 2	- 23	24
DAY													•											
1	18	17	14	11	15	16	13	14	18	18	18	19	19	19	17	15	13	15	18	21	22	24	21	13
2	8	- 1	-9	-20	- 27	-33	-42	-41	-25	-18	-13	-8	-7	-6	-10	-12	- 14	-11	-5	- 7	-8	-5	-1	-1
3	-0	- 2	- 3	- 6	- 7	-5	-4	-1	1	3	4	5	6	4	3	4	6	9	. 13	15	11	11	9	1
4	-9	-17	-13	- 7	-3	-4	-3	-1	2	7	9	7	6	9	. 7	5	. 5	. 6	6	7	10	10	10	10
5	8	7	8	6	2	2	7	10	11	11	9	14	17	18	19	25	21	20	16	8	7	14	18	10
6	7	2	4	5	2	9	4	-3	-21	-27	-17	-13	-7	-16	-26	- 27	-26	- 35	-34	-31	-24	-23	-20	-22
7	-27	-24	-23	-20	- 26	-43	-43	-40	-39	-32	-30	-32	-28	-23	-26	- 30	-29	-26	-24	-26	-24	-26	-21	-8
8	- 3	- 3	- 4	- 8	-8	-10	-13	-13	-12	-16	-15	-15	-14	-12	-14	-14	-12	-13	-13	-9	-9	-12	-12	-13
9	-8	-8	- 7	- 7	- 10	-8	-10	-14	-17	-22	-23	-20	-18	-19	-19	-12	-10	-8	-6	-6	-6	-5	-7	-9
10	-10	-10	- 8	-6	- 12	-18	-21	-18	-14	-10	-7	-8	-10	-10	-9	-11	- 9	-4	- 3	-9	-10	-8	-11	-12
11	-12	-10	- 5	- 3	-7	-12	-11	-8	-7	-8	-6	-4	-5	-6	-7	-10	-12	-10	-9	-7	-4	0	4	10
12	11	15	18	16	12	11	7	5	4	· 5	5	5	4	5	5	. 6	5	4	5	7	8	5	-1	-7
13	-7	-6	-4	- 5	-6	-7	- 5	-3	-1	1	3	2	1	1	- 2	-2	- 4	-2	- 1	2	6	10	12	16
14	16	10	4	2	1	3	7	3	8	8	-2	-5	-2	5	· 7	7	-0	-14	-19	-22	-18	-17	-15	-15
15	-15	-9	- 1 4	-16	-18	-26	-30	-26	-16	-10	-7	-5	-8	-11	- 1 1	-7	-11	-12	-13	-15	-15	-8	1	6
																		1						
16	8	9	13	12	11	10	10	11	15	15	15	17	14	11	6	3	- o	-0	3	6	8	10	7	-11
17	-26	-31	- 30	-27	-20	-22	-16	-20	-6	-7	-2	-37	-46	-34	-48	-65	-54	- 54	-57	-37	-31	-43	-44	-49
18	- 55	-45	-49	-45	-49	-59	-61	- 56	-63	-65	-51	-46	-52	-57	-53	-56	-50	-43	-42	-45	-37	-33	-27	-19
19	-20	-22	-23	-22	- 22	-23	-21	-19	-21	-22	-22	-18	-17	-14	-15	- 15	-16	-12	-11		-17	-19	-16	-15
20	-9	- 7	- 7	- 8	-9	-12	-11	-9	-8	- 6	-7	-6	-8	-7	-9	-10	- 1 1	-11	-11	-14	-12	-7	-4	2
21	4	7	10	10	9	5	3	4	5	7	6	-3	- 6	-4	-0	0	0	1	2	2	2	5	9	13
22	15	14	17	16	10	5	5	5	4	. 8	10	7	3	4	. 2	3	7	8	7	9	11	14	17	16
23	16	8	2	8	12	10	7	5	10	16	18	12	9	12	9	6	6	8	5	-1	-5	-2	4	8
24	9	6	3	1	6	8	i 1	13	16	18	18	14	14	12	11	11	9	7	6	0	2	-3	-3	2
25	6	1 1	11	10	9	9	7	8	9	10	14	11	10	8	10	8	2	- 1	-2	-2	4	8	5	6
26	8	12	8	3	– o	-0	3	5	4	3	4	5	4	3	1	-2	1	1	1	-0	-2	-5	-4	. 0
27	3	6	8	8	9	9	9	10	10	10	12	12	10	10	11	12	13	13	10	6	5	6	7	7
28	6	5	6	8	12	13	15	17	18	19	18	15	20	19	18	20_	21	19	17	15	12	13	12	9
29	10	9	8	9	13	18	28	31	31	31	29	27,	25	24	24	25	25	25	34	36	37	37	41	44
30	36	28	29	35	33	27	25	27	40	24	12	1 1	6	5	2	-3	- 1	0	- 3	- 5	-7	-4	- 5	-2
31	- 1	2	4	6	6	9	7	7	9	9	7	7	6	7	8	7	7	9	12	15	15	13	15	18

JUNE 1971 (PROVISIONAL)

	IIN TT	'= GA M N	145																				G.	M. T.
	1	2	3	4	5	6	7	8	9	10	1 1	12	13	14	15	16	17	18	19	20	21	22	23	24
DAY																								_
1	21	23	26	26	25	30	30	25	9	-4	~5	-15	-15	-17	-19	- 26	-22	-16	-15	-9	-10	-18	-8	3
2	6	7	8	- 5	- 5	-4	- 1	1	-3	-14	-9	-12	-6	-16	-18	-18	-20	-17	-15	-14	-13	-15	-12	-7
3	-11	-24	- 23	- 14	- 13	- 8	-12	-9	- 8	-5	-1	- 5	-10	-11	- 6	-0	~ 2	- 4	- 6	-11	-12	-1 1	-5	-3
4	-3	-0	- 2	- 1	1	3	4	- 1	3	5	6	3	-0	1	4	7	10	9	8	8	6	4	-1	-3
5	-3	-1	- 4	- 6	-4	- 1	2	4	6	4	5	4	0	-2	- 1	0	1	3	4	6	7	-0	1	5
6	5	3	2	- 0	- 2	-0	2	1	2	3	2	-0	-3	-1	0	- 3	- 0	- 2	- 1	-1	0	2	5	5
7	4	3	3	5	7	7	8	11	12	11	11	9	8	8	10	10	10	11	13	14	16	14	15	16
8	17	14	9	5	2	5	5	3	0	-3	-2	0	1	2	2	4	6	10	9	4	5	8	6	4
9	2	2	5	7	8	7	8	8	7	8	7	7	6	5	5	5	3	5	8	8	6	7	6	7
10	8	8	8	12	17	19	21	22	23	22	16	15	12	12	15	17	16	18	21	21	22	21	20	24
11	26	26	26	21	17	. 16	13	9	7	4	-0	-2	- 1	2	4	5	7	9	8	8	6	5	1	3
12	9	15	17	17	19	17	14	14	16	16	15	17	18	21	25	23	21	21	19	15	14	10	9	12
13	14	13	12	16	20	22	21	20	18	18	21	23	22	25	17	6	1	2	- 0	-2	-5	-9	-11	-8
14	-2	3	8	8	3	-1	-2	-0	0	1	1	-1	-5	-7	-5	- 2	- i	-2	-4	-4	-3	-4	-2	-1
15	0	2	4	6	9	11	12	11	10	9	11	12	12	10	9	12	16	19	19	18	19	19	21	21
• •	v	-	-	Ŭ	•	••		• •	••	,	• •		•-	••	•	•	••	• -	• •	• •	- /	• -		
16	21	20	15	14	15	18	21	22	24	26	25	20	15	13	9	10	11	12	14	14	14	11	10	9
17	13	11	13	16	15	16	16	7	8	15	13	2	0	4	8	7	7	10	11	1 1	1 T	12	15	16
18	15	11	10	12	14	13	9	10	15	15	14	14	11	10	11	11	12	12	12	12	9	9	14	16
19 .	14	13	14	17	17	17	19	21	23	21	22	24	24	23	24	26	26	27	27	27	27	27	29	30
20	28	26	25	23	21	24	23	19	18	20	22	24	23	22	21	21	20	20	20	23	26	27	28	29
21	29	29	29	30	30	31	33	29	26	26	29	32	28	20	18	21	24	25	27	31	29	21	18	19
22	21	20	18	20	25	26	27	26	25	27	29	29	28	21	25	25	23	21	23	24	25	24	20	26
23	26	29	26	25	30	30	28	20	25	16	6	-2	-4	-2	3	8	12	14	14	14	13	11	10	11
24	11	10	13	14	18	21	24	25	21	23	23	24	26	24	28	34	36	36	31	20	12	10	6	2
25	7	-14	- 17	-19	- 20	-21	-15	-18	-21	-23	-27	-36	-49	-51	-43	- 19	- 45	-33	-27	-16	2	5	-15	-17
26	-14	-16	- 21	-22	-13	-7	-7	-13	-1 1	-5	1	-3	-7	-7	-6	- 4	- 2	- 1	-2	-3	-2	0	-1	-4
27	-7	- 7	- 2	- 0	1	2	4	4	3	1	-3	-5	-4	-2	1	. 7	13	16	17	18	19	17	14	14
28	15	15	18	20	21	25	27	25	19	17	22	24	20	19	19	24	22	24	24	20	16	7	3	-1
29	1	2	2	. 6	1	3	8	16	23	21	24	28	15	1	3	11	5	- 6	-15	-16	-22	-30	-25	-24
30	-27	-26	-21	-19	-15	-12	-8	-6	-6	-8	-6	-5	-1	0	- 1	- 1	- 1	- 1	- 2	-4	-3	-4	-3	2

		· · · · ·	= GAMM	A C																				G.	M.T.	
		1	- GAMM 2	3	4	5	6	7	, 8	9	10	1 1	12	13	14	15	16	17	18	19	20	21	22	23	24	
				,										•												
	DAY					_	. 7	11	. 7	3	-4	-2	1	-2	-4	- 4	- 3	- 1	3	6	7	8	9	7	6	
	1	2	-2	- 1 - 3	. 1 -4	0	2	2	í	-3	-1	2	6	4	4	4	4	4	6	9	10	12	13	6	0	
	2	- 3	-5	- 2	- 4	. 4	4	7	10	9	9	10	8	7	5	4	6	9	9	8	6	5	4	-2	-13	
	3	_	_	-10	-13	- 11	-6	- i	-1	3	4	3	4	3	3	i	2	5	6	9	9	13	16	18	16	
		-14	-9	-10	- 13		11	14	15	12	7	6	8	11	11	9	10	12	18	22	17	18	19	15	13	
	5	14	10			. •	1.	14		. •-	•	J	•	••		-					-					
	6	. 13	18	. 18	:18	. 18	17	17	17	17	17	18	19	19	16	12	16	23	28	26	27	23	27	26	29	
	7	. 27	25	23	23	24	25	27	26	27	24	24	23	26	29	30	31	33	31	29	27	27	26	24	20	
	8	21	. 16	12	. 7	6	6	5	6	6	7	7	10	11	9	6	6	7	11	13	15	14	.9	2	-1	
	9	4	7	1.1	6	8	6	4	2	5	7	7	4	5	5	6	7	6	7	9	7	8	8	5	5	
	10	8	13	17	17	19	19	18	16	14	13	13	16	18	18	19	23	24	24	22	21	22	17	16	17	
		•									20		26	20	27	26	32	33	27	20	17	19	21	20	19	
	11	15	. 16	21	22	23	23	24	24	27	29	28	26	29		47	47	50	46	46	43	43	36	38	43	
`	12	21	19	26	. 28	28	29	26	23	24	27	32	26	30	40	13	15	17	16	17	13	14	19	22	22	
٠	13	. 43	- 38	36	32	32	30	28	13	7	13	16	15	13	11 12	12	13	14	16	17	14	16	20	19	20	
	14	19	21	21	17	18	19	15	9	13	15	14	11	11 8	9	10	. 10	11	10	6	10	15	13	15	16	
	15	20	20	24	19	20	15	15	15	13	9	10			9	10	. 10	• •	10	Ū		, ,	• •	•••		
	16	16	15	14	15	18	17	. 17	16	17	16	16	14	13	17	15	12	11	13	9	11	13	16	18	17	
	17	15	16	21	23	22	17	16	17	18	19	19	15	14	16	17	15	15	16	17	20	23	25	28	28	
	18	26	24	25	27	21	13	14	18	17	23	26	22	22	21	26	30	3.0	20	13	10	11	12	14	19	
	19	27	33	26	24	24	21	17	16	17	19	21	21	19	18	14	13	6	12	15	17	19	16	13	14	
	20	17	: 17	18	19	20	20	20	21	22	22	20	19	17	18	15	11	6	7	9	9	9	11	12	12	
		- '	• • •		• -		,																		•	
	21	13	15	, 14	15	15	24	27	26	28	37	33	29	24	22	8	- 13	-29	-33	-34	-39	-42	-45	-42	-37	
	22	-35	-23	-19	-21	-22	-21	-14	-10	-9	-8	-6	-6	-3	-2	- 1	1	4	4	3	3	. 4	1	4	8	
	23	4	4	. 6	4	8	8	11	10	17	21	23	20	23	24	32	33	31	29	25	19	17	15	11	12	
	24	12	12	15	17	15	12	14	14	16	15	17	17	14	15	19	20	21	21	20	20	34	24	20	15	
	25	. 11	12	13	13	15	, 16	15	15	15	14	17	17	17	12	8	11	13	15	13	12	12	17	19	19	
			•	•										• •	22	28	34	34	41	51	31	19	20	14	8	
	26	17	19	20	19	19	21	22	19	17	18	15	14	18		19	17	15	12	13	11	13	14	14	14	
	27	1 1	15	12	16	19	18	21	18	1.9	20 8	22 8	23 6	14 6	15 5	19	7	8	11	10	9	11	14	18	18	
	28	11	12	10	8	6	. 9	8	8	8	_	_		_				8	8	7	6	5	-2	-8	-7	
	29	14	14	14	12	14	17	17	16	15	17	18 5	11	10 -0	13 -5	18 -3	16 2	2	-1	-3	-3	ı	7	13	15	
	30	- 7	- 3	- 4	- 6	-9	-12	-8	-3	-1	2	3	0	-0	-5	-3	-	-	4		,	•	•			
	31	10	7	5	5	7	9	9	8	10	1 1	7	3	5	5	9	11	15	15	13	3	-3	-3	-	1	

AUGJST 1971 (PROVISIONAL)

	UNIT	'= GA MM.	A S																					M. T.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
DAY																								
1	9	7	8	11	12	12	12	11	10	10	13	17	18	19	21	21	22	23	23	19	20	32	42	40
2	39	40	32	23	14	11	-2	-3	-14	-20	-17	-17	-18	-11	-5	- 2	- 4	-4	-3	-6	-5	-2	6	8
3	6	6	6	5	3	4	5	5	5	3	4	7	7	8	10	11	10	10	9	12	12	12	10	8
4	5	4	8	7	6	6	5	6	10	13	13	7	4	8	13	18	17	13	7	4	11	17	23	26
5	17	2	- 5	-11	- 14	+22	-22	-19	-16	-15	-12	-10	-7	- 6	-6	-6	-4	-0	1	2	2	1	0	5
6	5	4	4	5	6	8	9	8	7	8	10	13	13	14	14	11	10	11	11	14	17	17	15	13
7	13	13	16	18	18	- 19	22	21	22	26	24	27	27	27	28	30	31	30	31	30	23	10	8	7
8	2	-4	- 7	- 7	- 7	-4	-7	-9	-14	-15	-16	-15	-14	-11	-6	- 4	2	8	2	-3	-5	-10	-6	2
9	4	6	9	14	12	1 C	9	9	8	1	-2	-3	1	7	9	8	4	5	6	0	-1	3	8	10
10	10	9	2	- 4	- 2	-8	-0	7	6	6	9	1 1	10	11	1 1	13	11	12	9	3	3	4	5	0
11	-7	-12	- 6	- 2	– 1	-5	1 .	5	6	1	-4	-4	-4	3	8	6	3	2	2	2	1	1	7	11
12	12	9	15	19	. 23	18	14	8	-2	- 1	3	9	5	2	2	5	8	9	8	9	9	15	12	11
13	8	5	5	7	8	9	8	10	10	9	9	10	10	10	12	13	13	14	12	15	15	12	10	5
14	3	3	4	7	10	13	15	16	1.5	16	15	14	15	16	16	15	14	16	17	17	14	1.1	8	11
15	1 4	16	18	19	21	21	21	18	. 3	14	21	22	25	25	24	25	27	26	23	17	18	1.5	14	18
16	25	31	27	21	20	20	24	23	19	16	21	17	17	17	15	15	19	26	25	20	11	10	13	16
17	15	15	15	20	25	28	30	30	28	26	26	25	22	19	20	20	24	22	18	16	21	33	35	20
18	13	6	0	0 -	9	1.3	16	17	16	12	11	7	5	6	12	22	24	20	17	11	9	8	9	8
19	6	5	8	13	14	8	5	2	3	5	7	5	5	4	5	6	8	9	9	10	9	10	12	14
20	12	14	16	17	21	21	23	22	21	21	21	19	18	19	20	22	20	21	21	23	24	25	26	24
21	22	21	20	19	12	а	7	5	3	-2	- 5	-4	-4	-2	2	1	1	-3	-3	-6	-5	-4	-1	- 2
22	- 4	- 3	0	6	4	0	. 0	4	1	1	-0	-4	-5	-6	- 7	-6	- 5	-0	- 1	-7	-11	-12	-7	-4
23	- 1	9	18	25	32	24	23	21	18	1 1	13	16	14	4	ı	7	12	9	3	1	3	3	1	-1
24	-3	- 5	- 2	3	9	13	14	18	18	17	15	12	10	13	13	15	16	15	6	1	2	2	-4	1
25	6	3	6	9	14	14	15	18	18	19	17	14	14	16	18	18	16	18	16	10	11	3	-9	-15
26	-20	-12	- 5	- 3	1	- e	-5	-6	-4	- 5	-7	-8	-10	-9	-9	-9	- 6	- 5	-10	-12	-12	-7	-4	-2
27	1	.3	7	9	11	11	11	1 1	12	1.3	13	14	14	12	13	12	13	15	13	10	8	7	7	10
28	11	20	21	21	21	21	55	26	30	29	32	33	32	31	25	16	12	11	8	11	11	14	14	15
29	9	11	15	20	20	19	23	24	26	24	25	25	21	19	19	18	20	23	24	22	18	16	19	15
30	13	1.3	14	14	13	12	13	1 4	16	20	20	19	20	19	17	15	18	24	24	20	17	14	14	25
31	27	13	- 3	- 8	-2	-3	1	-2	5	15	14	9	7	8	9	8	8	3	3	1	-3	-3	-1	-1

SEPTEMBER 1971 (PROVISIONAL)

	UN IT	= GAM Y	AS																				G.	M.T.
	1	2	3	4	5	6	7	8	9	10	1 1	12	13	14	15	16	17	18	19	20	21	22	` 23	24
DAY			,																					
1	- 8	-11	-9	- 8	-7	-2	1	1	-0	2	2	5	5	4	4	5	7	8	6	5	3	-2	- 5	-3
2	-0	i	ź	5	7	9	10	11	11	10	9	9	10	11	11	12	13	15	13	9.	9	8	-3. 8.	7
3	6	6	9	9	. 8	6	. 4	2	-1	O	1	-2	-1	4	4	6	8	7	3	-0	1	2	4	5
4	5	7	8	8	9	1.0	-13	14	16	16	15	17	17	16	13	14	18	25	21	19	24	-2	i	2
5	8	13	15	16	10	2	-6	-7	-4	-4	-11	-2	2	-2	-3	-13	-13	-13	-10	-13	-18	-12	-4	6
					•																			
6	11	14	17	17	17	14	11	7	5	12	10	4	4	6	6	4	8	11	11	5	2	5	2	-3
. 7	-12	- 5	3	6	-0	2	6	7	7	7	10	8	10	9	6	- 2	- 5	-6	- 7	-10	-18	-19	-17	-22
. 8	-23	-18	- 1 1	- 7	- 7	2	3	-1	-0.	5	5	8	11	11	6	3	. 4	7	7	5	6	5	6	9
9	11	13	11	10	7	6	8	11	15	14	15	19	20	20	16	14	1.8	20	19	16	12	3	4	5
10	10	1,3	1.4	9	5	5	12	16	16	16	18	21	23	22	19	16	18	21	2,1	21	21	20	20	20
	17		• •	• •		13	11	10	_	-	_	12	• •				_				_	_	_	
11	1.7	14 17	14 15	16 14	16 14	13	. 7	.6	9	7 4	9 15	23	14 22	12 12	6 7	6	9	13 12	15 18	15 31	8 32	- 5 -31	9	14
12 13	30	30	38	36	33	16	-3	-14	-1 4	-8	-7	~0	4	7	6	2 12	16	20	20	15	11	.31	30 12	29 12
14	7	30	4	3	5	6	-5 5	1	4	-o 6	8	7	8	11	13	14	14	16	18	15	10	8	9	15
15	25	27	20	21	20	27	32	21	19	17	7	4	9	8	9	6	4	4	2	15	4	7	7	15
13	25	~ 1	20	21	20	21	32	21	19	1,		*	9	0	7	. 0	*		~		•	•	,	0
16	8	8	9	11	12	12	15	14	19	24	25	24	21	19	17	14	14	19	23	25	23	19	12	13
17	19	18	21	22	19	15	13	13	13	16	18	24	27	25	25	28	31	38	36	35	36	40	34	20
18	-5	-28	-27	-45	- 55	-59	-62	-62	 59	-50	-41	-4 1	- 39	-35	-29	- 23	-23	-26	-19	-17	-13	-18	-17	-12
19	-4	- 0	- 5	-15	-17	-16	-18	-16	-10	-7	-4	-2	-1	0	1	0	- 3	-5	-7	-14	-17	-14	12	-8
20	-9	- 9	-16	-16	- 12	-8	-7	-7	-9	-11	-9	-3	1	-2	- 7	-6	- 5	- 3	- 4	-5	-6	-9	-9	-10
					1																			
21	- 9	-8	- 7	-6	-6	-8	-6	-2	1	5	9	8	4	3	3	2	1	-2	- 2	-6	-4	0	1	4
22	4	3	2	2	` 2	4	. 3	3	1	-0	-1	-3	- 3	-3	- 1	0	- 1	- 1	5	8	11	12	13	15
23	14	14	12	1 1	10	10	10	1 1	12	1 1	10	12	12	- 12	13	1,1	10	10	15	18	17	13	15	14
24	15	16	19	19	17	16	18	18	20	20	22	24	25	24	25	27	25	26	22	12	.10	13	14	1.4
25	14	10	14	4	- 11	-19	-24	-27	-24	-26	-28	-40	- 30	-22	-24	- 25	-27	-23	-17	-10	-11	-18	-18	-13
26	_ ^		^	_ •		_ ~		,	•	~	•	12	10	21	10	1.7	7	9	9	9		-19	70	-64
26 27	-8 -58	-1 -49	-0 -41	-1 -49	-3 -54	-3 -51	-1 -51	-3 50	5 - 52	2 -42	6 -30	12 -24	18 -31	21 -26	19 -27	13 -21	-24	-30	-24	-16	-6 -12	-13	-38 -15	-54 -13
27 28	-13	-16	-18	-18	-16	-12	-12	-11	- 52	-42	-30	-24	-31 -3	-20 -2	-21	~8	-10	-8	-3	-10	-12	-13	-15	- 1,3
29	-13	-10	- 10	3	-10	-12	-12	-11	-10 -2	1	5	4	2	-2	2	-0	- 3	- 5	-0	2	12	8	-1	9
30	. 8	10	10	_	. 13	13	14	16	3	-8	-8	- 5	2	-5	-18	~22	-23	-20	-22	-15	-9	-7	-i5	-15
30	0	10	10	1.1	13	13	1.4	10	3	-3	-3	- 5	۵.	- 3	10	- 22	- 2 3	- 20	2.2	-13	- 7	-,	-13	- 13

	IIN TT	= GAMM	AS																					м.Т.
	1	2	3	4	5	6	7	8	9	10	1 1	12	13	14	15	16	17	18	19	20	21	55	23	24
DAY																				,	_	_	_	
1	-13	-8	-14	-24	- 30	-28	-20	-21	-20	-20	-13	-7	-6	-6	- 5	0	- 4	-8	-2	4	5	-2	-9	-14
2	-9	-9	-9	- 7	- 11	-10	-8	-10	-14	-15	-2	-6	-3	2	6	. 1	-6	-13	-8	-1	-1	-10	-17	-9
3	-6	7	-19	- 22	-16	-10	-9	-13	- 1 2	-5	1	-0	-0	-4	-2	- 1	- 5	-10	- 4	2	3	-2	-6	-5
4	-7	1	5	7	-2	-7	-4	1	1	-4	-2	3	7	7	4	3	- 1	- 4	- 1	-1	-13	-21	-18	-11
5	-6	-14	-18	- 13	-15	-16	-16	-17	-16	-9	- 6	- 1	-0	1	3	- 2	- 7	-7	0	5	4	2	5	18
6	7	2	13	20	10	6	3	1	О	-0	-0	5	6	12	15	12	1	-28	-13	-4	-3	-3	8	- 5
7	1	7	9	5	5	2	2	2	2	2	5	8	5	4	6	6	2	- 4	- 6	- 1	-2	-19	-28	-31
8	-21	-20	-18	-22	-24	-16	-14	-17	-21	-21	-21	-23	-28	-11	- 2	-0	- 8	- 1	-2	0	-2	-7	-8	-4
9	2	13	7	- 3	-15	-28	-33	-21	-18	-21	-15	-20	-28	-25	-10	-6	-10	-13	-13	-12	-11	-7	-5	- 5
10	-4	-5	- 4	- 4	-4	-7	-6	-4	-1	-2	1	0	1	4	8	6	-0	- 4	2	7	8	5	5	6
1.1	6	3	2	6	8	6	9	10	11	9	8	7	13	14	12	1	-12	-21	-22	-19	-19	-15	-15	-13
12	- 8	- 8	-8	-10	-6	-4	2	4	4	4	5	4	2	2	6	9	4	- 8	- 3	2	0	6	11	5
13	5	8	10	5	5	7	5	-0	-1	-2	3	5	-1	1	7	6	0	-11	- 4	6	7	5	10	14
14	15	15	14	14	12	13	13	12	11	12	16	15	11	8	5	10	8	5	6	10	11	12	11	6
.15	7	11	10	11	8	10	13	16	11	9	11	8	9	13	12	11	8	6	9	12	11	8	9	13
						17	18	20	18	16	15	13	10	10	13	11	6	- 2	5	14	14	12	12	16
16	15	18	19 13	20 14	18 14	13	13	12	11	15	18	16	14	15	17	18	1.4	11	15	19	17	14	14	15
17	18	15	17	17	17	17	17	17	18	21	22	21	19	19	20	20	15	63	1 1	17	20	18	18	21
18	14	16		22	22	21	23	23	22	20	20	21	20	22	26	23	25	23	21	25	26	22	21	21
19	21	20	20 22	24	24	22	23	23	20	17	16	17	17	18	24	24	22	19	19	17	15	14	15	15
20	20	21	22	24	24	62	2.5	23		• '	••	• •	•											_
21	12	13	16	19	20	18	18	20	20	23	22	19	14	16	21	16	6	0	3	5	6	4	4	7 3
22	10	12	15	14	11	6	1	-6	-5	-5	- 5	-5	~3	0	3	4	- 1	-15	-14	-7	0	-4	-1	_
23	6	9	14	19	24	25	23	23	20	20	22	28	40	40	46	50	28	14	11	17		18	22 -8	27 8
24	25	23	22	28	35	28	18	20	13	9	12	11	5	1	6	8	- 0	- 5	-4	-5	-14	-14	-4	-0
25	-7	-7	- 4	- 2	1	3	5	5	6	5	2	-3	6	-4	3	3	- 2	- 5	- 2	-1	- 5	- 6	-4	Ū
26	0	1	4	9	11	12	15	17	16	15	12	9	8	8	12	11	7	5	11	16	16	14	13	12
27	11	10	10	15	15	13	18	20	22	19	20	17	19	18	17	15	14	12	11	15	19	19	23	28
28	31	29	27	28	29	30	32	33	26	21	19	9	13	16	24	24	25	27	16	17	29	28	9	4 3
29	7	-4	- 13	-17	- 22	-19	-26	-28	-24	-14	- 6	- 5	-3	- 1	-4	-8	-9	-10	-5	-7	-7	-9	-3 3	3 8
30	4	- 1	- 1	-4	-15	-14	-9	-7	-9	-14	-13	-9	-11	-12	-11	-8	- 10	-12	- 8	-5	-2	-1	3	ð
31	12	8	2	1	4	4	2	-1	-0	0	2	1	1	3	8	6	4	0	3	6	9	10	12	15

NÖVEMBÉR 1971 (PROVIŠÍDNÁL)

	UN IT	= GA M V	AS																				6.	M. T.	
	1	2	3	4	5	6	7	8	9	10	iı	12	13	14	15	16	17	18	19	20	21	22	23	24	
DAY																					•				
i	13					_	_		_	_	_														
2	10	1 1 1 1	8 13	7 13	6 14	3 14	3 14	12	.9	2	2	2	2	4	5	. 5	0	-2	1	3	5	5	7	8	
3	14	15	16	15	16	14	13	10	-	8	10	10	10	11	12	11	е	5	5	8	8	9	10	11	
Δ	22	20	21	21	18	16	17	20	9	10	11 17	13	17	14	15	16	15	18	23	25	23	22	26	28	
5	16	16	18	17	17	18	16	14	21 14	14	11	19	19	16	17	16	10	6	12	11	13	14	16	15	
•			.0	• • •	• '	10	10	14	14	14	11	•	5	5	6	4	1	0	4	10	10	7	6	10	
6	13	13	1 4	16	16	17	18	18	18	17	14	11	1 i	11	14	15	16	15	16	21	24	25	25	25	
7	25	20	18	21	20	19	16	15	16	18	19	15	11	8	10	13	12	11	11	13	14	16	18	17	
8	17	18	17	19	18	19	19	18	24	24	26	29	30	34	32	22	15	6	-2	1	9	7	2	2	
9	6	7	9	8	8	7	10	13	14	14	12	7	3	3	5	5	5	5	5	8	10	10	8	7	
10	8	9	12	17	18	19	19	22	26	27	24	21	22	23	25	32	40	44	48	43	39	36	35	24	
																						•			
11	10	- 3	-18	- 26	-14	-13	-15	-15	-12	-10	-4	-3	-2	-3	-8	-÷ė	- 8	÷a	-6	-8	-10	-8	-4	-7	٠.
12	÷12	- 6	2	4	5	2	6	11	9	8	9	7	5	3	2	. 3	ź	3	6	5	0	-1	3	7	
13	7	4	6	8	11	12	12	11	12	11	10	10	9	9	ä	4	3	5	5	4	5	7	7	. 8	
14	10	12	13	13	14	14	15	16	17	16	14	15	15	14	14	14	13	13	13	14	16	16	16	- 15	
15	16	16	16	16	15	14	14	14	17	17	18	19	19	18	18	18	19	18	18	16	15	14	14	14	
																								• •	
16	1 4	15	16	16	16	17	17	16	16	16	14	15	13	12	12	12	13	14	16	16	16	18	18	18	
17	19	20	21	22	22	21	21	22	23	26	25	23	23	24	23	23	22	20	19	19	22	25	30	33	
18	34	35	28	19	12	17	18	23	21	21	17	15	19	- 15	14	11	13	12	13	14	15	21	20	- 18	
19	16	24	28	32	36	40	36	33	36	36	38	39	39	31	22	13	- 0	9	14	13	13	12	13	14	
20	15	16	i 5	15	19	19	19	17	i 1	2	-0	3	8	14	13	14	13	13	14	13	12	14	8	9	
21	13	16	16	14	17	i 7	15	15	Ź			_													
22	-6	2	4	4	10	14	15	-6	-11	-3 -8	-8 -16	-9 -12	-14 -9	-20	-18	- 14	- 1 i	-7		-11	-7	-3	-3	-6	
23	÷29	-26	- 22	-13	2	-4	-30	-0 ÷25	-27	-17	-10	-16		-10	-16	-16	-16	-1	4	-14	-12	-16	-24	-31	
24	-28	-22	-19	- 25	- 26	-25	-27	-23 -24	-27 -17				-13	-11	-14	-11	- 6	-5	- 9	-20	-14	-19	-22	29	
25	-26		- 20	-13	÷25	-23 -22	-26	-24 -17	-17 -28	-21 -34	-21 -41	∸16 ∸39	-13	-13	-8	-7	-11	-12	-11		-11	-21	-17	-23	
2.5	- 20	-23	- 20	-13	~25	-22	-26	-17	-28	-34	-4 1	-39	- 29	-36	-42	- 48	-48	-45	-33	-29	-25	-25	-28	-26	
26	-21	– í 5	- 14	-13	- 14	-16	-14	-ź1	-22	-22	-20	-14	-17	-19	-19	- 17	-12	-12	-11	-6	-5	-4	-5	-5	
27	- 4	- 3	- 4	-6	-6	÷5	-6	-6	-4	∸3	-3	-6	-6	-5	-6	-7	-6	-2	2	4	3	-1	-7	-11	
28	-6	4	- 5	- 7	- 5	∸ 6	-6	∸3	5	· 8	3	-1	6	-8	-12	÷10	- 5	2	4	5	4	3	1	-1	
29	- 3	-5	- 4	- 6	- 5	∸ i	2	1	0	- 1	-1	i	3	3	1	1	ĭ	1	-4	-4	-4	-2	- <u>2</u>	-2	
ЭÖ	0	3	4	5	6	6	3	-0	4	8	4	5	5	3	2	4	6	8	10	11	10	7	3	3	

DECEMBER 1971 (PROVISIONAL)

	140177	= GA M M	4.6																				G.	M.T.
	1	= GA M M	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
DAY													_	_		_	_		6	10	14	7	10	12
1	3	3	2	2	1	C	0	3	2	0	-1	-0	2	1	-1	2	6	6 12	13	13	12	9	8	6
2	13	14	14	16	17	13	10	8	7	7	7	7	9	14	9	9	10	12		2	3	4	3	5
3	6	9	1 1	9	9	11	8	2	-6	-13	-16	-9	-5	-5	- 4	-3	2	_	4	17	18	14	12	10
4	6	9	1 1	11	7	10	12	6	4	4	2	0	4	3	5 3	7 3	9	10	13	9	11	12	8	6
5	10	15	16	1 4	13	11	8	1	1	-1	- 2	-3	-1	2	3	3	э	•	•	9		12	· ·	•
6	4	5	7	7	7	10	10	10	10	9	10	11	12	13	12	13	15	16	16	16	16	13	10	9 10
7	9	12	13	12	13	16	16	14	12	8	6	8	10	13	15	14	14	14	12	12	12	10	10	41
8	1 1	12	13	1 4	17	18	19	19	23	25	25	25	21	20	20	22	22	23	26	30	32	35	39	
9	42	33	26	36	39	38	36	34	26	27	20	15	18	20	18	18	17	16	12	17	16	16	13	9
10	12	12	12	12	11	12	14	15	18	21	19	17	17	16	16	14	15	13	11	10	10	8	8	9
11	13	14	14	13	13	13	14	13	14	16	17	22	24	23	20	15	14	10	12	9	9	11	1	2
12	5	9	10	12	11	12	13	11	14	15	14	15	16	17	17	18	12	7	3	10	4	2	-5	-11
13	-12	- 7	- 8	- 8	-5	- 1	-1	-3	-6	-1 1	-11	-7	- 8	-8	-10	- 15	-13	- 8	- 4	-3	-9	-17	-9	-4
14	-0	.3	4	5	4	2	2	0	2	3	4	5	6	4	6	8	8	8	9	8	9	10	9	6
15	4	3	5	7	9	9	11	1 2	11	3	9	12	15	12	9	7	8	10	12	13	15	1 4	12	11
																	_	9	9	31	26	10	5	-2
16	12	14	14	12	9	9	10	11	10	8	8	10	13	12	12	11	9			-133				-114
17	1	- 8	-10	-12	-16	-17	-20	-29	-34	-33	-26	-18	-15	-11	16	18	-23				-37	-37	-43	-46
18	-98	-85	- 75	-61	- 66	-60	-53	-44	-51	-49	- 52	-49	-59	-55	-49	- 46	-45	-47			-31	-31	-33	-34
19	-45	-42	- 4 C	- 41	- 45	-48	-49	-48	-48	-5 2	- 50	-59	-52	-46	-43	-43	- 43	- 41			-15	-15	-19	-19
20	-35	-33	-30	-30	- 31	-31	-30	-27	-26	-24	-23	-23	-23	-24	-22	-22	-22	-19	-19	-10	-13	-13	-19	
21	-17	-15	-14	-14	- 12	-11	-10	-7	-7	-9	-11	-6	-4	-1	- 2	-4	- 4	- 3	1	1	-12	-13	-16	-15
22	-13	-14	-16	-13	-10	-11	-10	-12	-9	-12	-22	-17	-16	-21	-16	- 13	-19	-18	-13		-11	-12	-20	-10
23	-14	-17	-14	-15	-18	-13	-13	-18	-18	-15	-14	-13	-7	-6	-10	- 1 1	-18	-16	-16	-13	-14	-13	-14	-14
24	-11	- 7	-7	-11	- 11	-1 C	-10	-8	-7	-9	-11	-10	-5	2	2	2	t	-0	0	-1	-0	-1	-3	-6 -4
25	-7	- 5	- 7	- 8	-6	-4	-2	~ 3	-3	-3	-2	2	6	6	3	- 3	- 5	-0	- 1	-3	-2	1	3	-
26	-11	-11	-11	-12	- 13	-11	-9	-9	-6	-7	-7	-5	1	2	- 3	- 5	- 7	-11	-14		-16	-13	-9	-10
20 27	-13	-13	-12	-10	-9	-10	-10	-11	-10	-9	-11	-8	-5	-4	-5	-4	- 3	-1	0	4	4	7	6	4
28	2	-13	-0	-10	-1	-0	ō	4	6	9	11	11	14	13	10	3	- 1	6	12	13	10	7	2	1
29	0	0	-0	-3	-8	-11	-14	-17	-18	-22	-20	-24	-25	-23	-18	- 10	- 8	-3	6	11	18	21	18	-0
30	-19	~23	-19	-21	-17	-21	-19	-19	-17	-1 1	-5	-10	-12	-8	-9	-13	-16	-12	- 8	-8	-7	-2	-3	-4
31	-6	- 4	- 4	-6	- 7	-7	-3	-1	4	6	5	6	6	4	3	4	5	6	5	5	5	9	7	5

DAILY MEANS OF PROVISIONAL EQUATORIAL DST FOR 1971

	JAN	FEB	MAR	APR	MA Y	JUNE	JULY	AU G	SEPT	ост	NOV	DE C
DAY												
1	5	-8	2	-14	17	1	2	18	0	-11	4	4
2	7	- 7	8	-3	-13	-8	3	2	9	-7	10	1 1
3	-8	2	4	-4	3	-9	4	7	4	-6	17	1
4	-8	8	-10	-10	2	3	2	10	13	-2	16	8
5	- 3	13	- o	- 8	12	1	12	- 6	- 3	- 5	10	7
6	2	5	4	-6	-14	1	20	10	8	3	17	1 1
7	3	13	9	4	-28	10	26	22	-2	- 1	. 16	12
8	9	14	13	5	-11	5	9	-6	2	-13	17	23
9	17	9	8	-37	-12	5	6	6	13	-12	8	23
10	19	2	7	-35	-10	17	18	6	17	0	26	13
11	8	-0	11	-26	-6	9	24	1	1 1	-0	-8	1 4
12	9	10	1	-16	7	16	34	9	16	1	3	10
13	21	9	-24	-10	-0	11	21	10	12	4	8	- 8
14	1	4	-27	-16	-2	-1	16	13	9	11	14	5
15	-5	-13	- 22	-65	-12	12	14	20	13	10	16	10
16	4	-24	- 1 1	-34	8	16	15	20	17	14	15	1 1
17	12	- 16	-10	-16	-34	11	19	23	24	15	23	-46
18	11	- 13	- 6	-2	-48	12	20	1 1	-34	20	19	-54
19	-0	- 10	-6	-1	-18	22	18	8	-8	22	24	-43
20	-14	- 5	- 17	8	-8	23	15	20	-8	20	12	-24
21	-3	- 10	-0	-8	4	25	1	3	-1	13	-1	- 9
22	5	2	5	-34	9	24	-7	-3	3	0	-8	-14
23	1	3	21	-12	8	15	17	1 1	12	23	- 16	-14
24	5	-8	9	-2	8	21	17	8	19	3	- 18	- 5
25	-2	- 29	2	2	7	-23	1 4	11	-16	-1	- 30	- 2
26	12	- 32	0	12	2	-7	23	-7	o	11	- 14	- 9
27	- 26	- 13	4	2	9	5	16	10	-33	17	-4	- 5
28	- 54	~ 9	11	-1	14	19	9	20	-7	23	-2	6
29	- 25	0	17	19	26	1	1 1	20	2	-10	- 1	- 6
30	- 16	0	11	12	13	-7	- 1	17	-4	-7	5	-13
31	7	О	- 17	С	9	3	7	4	Э	5	0	2
MEAN	- 1	-4	- c	-1 C	-2	8	13	10	3	5	6	- 3

ANNUAL MEAN

NASA-GSFC